	Enrollm	ent No:	Exam Seat No:		
	C.U.SHAH UNIVERSITY				
	Summer Examination 2019				
	-	Name: Pharmaceutical Engineering - The Code: BP304T	neory Branch: B.Pharm		
	Semester	r: 3 Date: 18/03/2019	Time: 02:30 To 05:30	Marks : 75	
	Instruction	ons:			
	(2) 1 (3) 1	Use of Programmable calculator & any of instructions written on main answer bood Draw neat diagrams and figures (if necessary). Assume suitable data if needed.	k are strictly to be obeyed.	ohibited.	
Q-1		Define following:		(20)	
	a)	Heat exchangers		, ,	
	b)	Black body			
	c)	Gray body			
	d)	Reynolds number			
	e)	Colloidal mill			
	f)	Duhring's Rule			
	g)	Raoult's Law			
	h)	Equilibrium Moisture Content (EMC).			
	i)	Cyclone separator			
	$\mathbf{j})$	Distillation			
Atte	mpt the f	ollowing questions:			
Q-2		Attempt any two of following:		(20)	
	\mathbf{A}	Compare and contrast Orifice meter ar	•	10	
	В	Draw the drying rate curve and explain			
	C	Define centrifugation. Explain in brief	f centrifugal effect. Enumerate	applications 10	
		of centrifugation in pharmacy		(A =)	
Q-3		Attempt any Seven of following:		(35)	
	A	Discuss properties of material which a	•	5	
	В	Define: Size separation. Give objective			
	C	Classify mixers for liquids. Describe F	-	5	
	D	Why do we use steam as heating medi		5	
	E	Describe Fourrier's law. Explain stead	y state condition	5	
	F	Explain factors affecting filtration	ma 4: a.a.	5	
	\mathbf{G}	Explain factors affecting rate of evapo	ганоп	5	



Write a note on prevention of corrosion in a pharmaceutical plant

Write a brief note on distillation columns

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